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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/776,387	02/02/2001	Stanley N. Protigal	2898.2US (88-070.7) 2208			
²⁴²⁴⁷ TRASK BRI	7590 12/04/2002	EXAMINER				
P.O. BOX 255			SEFER, A	SEFER, AHMED N		
2 2 2	,		ART UNIT	PAPER NUMBER		
			2826 DATE MAILED: 12/04/2002	, /4		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		Application No). •	Applicant(s)				
Office Action Summary		09/776,387		PROTIGAL ET AL.	_			
		Examiner		Art Unit				
		A. Sefer		2826				
 Period for	The MAILING DATE of this communication ap	pears on the cov	er sheet with the	correspondence add	dress			
A SHC THE N - Extens after S - If the p - If NO	DRTENED STATUTORY PERIOD FOR REPLIALLING DATE OF THIS COMMUNICATION. Sions of time may be available under the provisions of 37 CFR 1. IX (6) MONTHS from the mailing date of this communication. Deriod for reply specified above is less than thirty (30) days, a reportiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statutiply received by the Office later than three months after the mailing a patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, ho oly within the statutory n will apply and will expite, cause the application g date of this communication.	wever, may a reply be ninimum of thirty (30) of re SIX (6) MONTHS for n to become ABANDO ication, even if timely f	timely filed lays will be considered timely om the mailing date of this co	mmunication.			
1)⊠	Responsive to communication(s) filed on 09	September 200	<u>2</u> .					
2a)□	11110 4011011 10 1 11 12 12	his action is non						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
	Claim(s) 1-10 is/are pending in the application	on.						
	4a) Of the above claim(s) is/are withdr	awn from consid	eration.					
5)	Claim(s) 3-5 and 8-10 is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1,2,6 and 7</u> is/are rejected.							
	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
	on Papers							
9) 🗌	The specification is objected to by the Examir	ner.	acted to by the F	- - - - - - - - - - - - - - - - - - -				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
441	Applicant may not request that any objection to The proposed drawing correction filed on	is: a) \(\sqrt{appr}	oved b)∐ disar	pproved by the Examin	ner.			
11)[_]	If approved, corrected drawings are required in			· · · · · · · · · · · · · · · · · · ·				
121	The oath or declaration is objected to by the I							
	under 35 U.S.C. §§ 119 and 120							
131	Acknowledgment is made of a claim for fore	ign priority unde	r 35 U.S.C. § 11	19(a)-(d) or (f).				
	☐ All b)☐ Some * c)☐ None of:							
"	1. Certified copies of the priority docume	ents have been r	eceived.					
	2 Certified copies of the priority docume	ents have been r	eceived in Appl	ication No				
*	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14)	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachme					la (a)			
2) \(\sum \) Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(4 _. 5 (s) <u>7</u> . 6) Interview Sun) Notice of Info) Other:	nmary (PTO-413) Paper N rmal Patent Application (F	No(s) PTO-152)			

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DETAILED ACTION

Response to Amendment

The amendment filed on 9/9/02 has been entered. And the indicated allowability 1. of claim 6 is withdrawn in view of the newly discovered reference(s) to Frankeny et al. US Patent No. 4,903,113. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that 2. form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Frankeny et 3. al. US Patent No. 4,903,113.

Frankeny et al disclose in figs. 1-7 a semiconductor device system configured for electrical connection to external circuitry, the semiconductor device system comprising a carrier substrate 64; and a semiconductor device 70 secured and operably coupled to the carrier substrate and including a semiconductor substrate having active circuit devices thereon; and an on-chip capacitor 58 including at least a portion thereof being

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formed in an active area of the semiconductor substrate, the on-chip capacitor being operably coupled between the active devices and the carrier substrate to provide filtering capacitance for the semiconductor device.

4. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Clayton US Patent No. 4,656,605.

Clayton discloses (see figs. 1 and 2 and col. 2, lines 42-48) a semiconductor device system configured for electrical connection to external circuitry, the semiconductor device system comprising a carrier substrate; and a semiconductor device 10 secured and operably coupled to the carrier substrate and including a semiconductor substrate having active circuit devices thereon; and an on-chip capacitor 33 including at least a portion thereof being formed in an active area of the semiconductor substrate, the on-chip capacitor being operably coupled between the active devices and the carrier substrate to provide filtering capacitance for the semiconductor device.

5. Claim 2 is rejected under 35 U.S.C. 102(e) as being anticipated by Clayton US Patent No. 4,656,605.

Clayton discloses (see figs. 1 and 2 and col. 2, lines 42-48) a semiconductor device for operable connection to a carrier substrate, the semiconductor device comprising, a semiconductor substrate; active circuit devices 10-18 on the semiconductor substrate; and a capacitor 33 having at least a portion thereof formed in an active area of the semiconductor substrate, the capacitor being operably coupled to

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the active circuit devices to provide filtering capacitance when the semiconductor device is operably connected to a carrier substrate.

6. Claim 2 is rejected under 35 U.S.C. 102(e) as being anticipated by Frankeny et al. US Patent No. 4,903,113.

Frankeny et al disclose in figs. 1-7 a semiconductor device for operable connection to a carrier substrate, the semiconductor device comprising, a semiconductor substrate; active circuit devices 70 on the semiconductor substrate; and a capacitor 58 having at least a portion thereof formed in an active area of the semiconductor substrate, the capacitor being operably coupled to the active circuit devices to provide filtering capacitance when the semiconductor device is operably connected to a carrier substrate.

7. Claim 6 is rejected under 35 U.S.C. 102(e) as being anticipated by Frankeny et al. US Patent No. 4,903,113.

Frankeny et al disclose in figs. 1-7 a semiconductor die assembly for connection to external circuitry, the semiconductor die assembly comprising a carrier substrate configured for providing power 60 and ground 62 for at least one semiconductor die 70 operably connected thereto; and at least one semiconductor die connected to the carrier substrate and including a semiconductor substrate having active circuit elements formed on an active areas thereof; at least one capacitor 58 on the semiconductor substrate, at least a portion of the at least one capacitor being formed on the active area, the at least one capacitor operably connected to the active circuit elements to provide filtering capacitance the at least one semiconductor die.

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8. Claim 7 is rejected under 35 U.S.C. 102(e) as being anticipated by Frankeny et al. US Patent No. 4,903,113.

Frankeny et al disclose in figs. 1-7 a semiconductor device for connection to a carrier substrate configured power 60 and ground 62 thereto, the semiconductor device comprising a semiconductor substrate having active circuit elements formed on an active areas thereof; at least one capacitor 58 on the semiconductor substrate, at least a portion of the at least one capacitor being formed on the active area, the at least one capacitor operably connected to the active circuit elements to provide filtering capacitance therefore when the semiconductor device is operably connected to a carrier substrate.

Allowable Subject Matter

9. Claims 3-6 and 8-10 are allowed.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Weinberg et al. US Patent No. 4,616,655 disclose a device with active and passive chips having a single PCB and a chip carrier.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Sefer whose telephone number is (703) 605-1227.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on (703) 308-6601.

ANS November 29, 2002

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